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## Improvement of Anti Inflammatory Activity of Quercetin with Cyclodextrin Complexes

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**SUMMARY.** The objective of this study was to enhance the anti-inflammatory activity of quercetin through complexation, by kneading method, with  $\beta$  cyclodextrin ( $\beta$ CD), hydroxy propyl  $\beta$  cyclodextrin (HP- $\beta$ CD), and sulpha butyl ether  $\beta$  cyclodextrin (SBE- $\beta$ CD). The anti inflammatory activity was determined by rat paw edema method. The anti-inflammatory activity of the kneaded complexes of quercetin- $\beta$ CD/ HP- $\beta$ CD/ SBE- $\beta$ CD inclusion complexes demonstrated enhanced of anti-inflammatory activity in the order SBE- $\beta$ CD> HP- $\beta$ CD>  $\beta$ CD > pure quercetin.

**KEY WORDS:** Anti-inflammatory, Carrageenan, Cyclodextrins, Quercetin.

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